

STRUCTURE OF HYDROCARBONS

Name _____

Draw the structure of the compounds below.

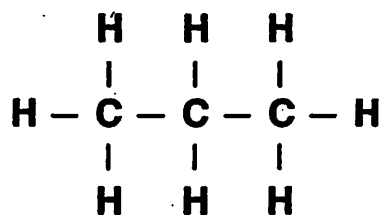
| | |
|-------------|-------------------------|
| 1. ethane | 5. ethyne |
| 2. propene | 6. 3,3-dimethyl pentane |
| 3. 2-butene | 7. 2,3-dimethyl pentane |
| 4. methane | 8. n-butyne |

NAMING HYDROCARBONS

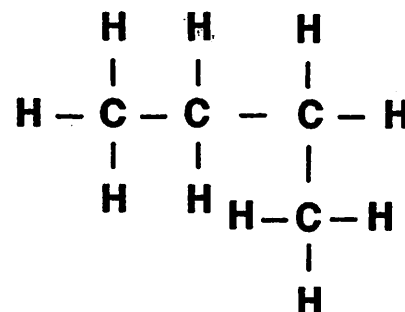
Name _____

Name the compounds below according to the IUPAC naming system

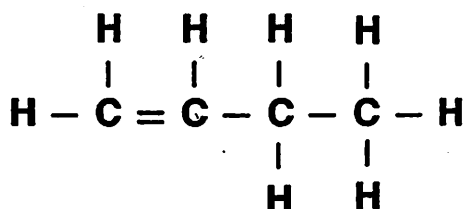
1.



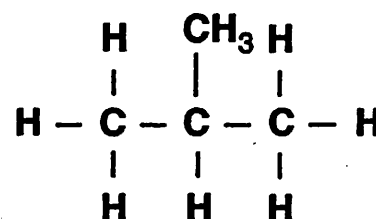
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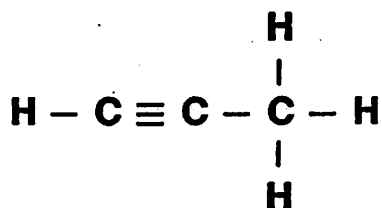
2.



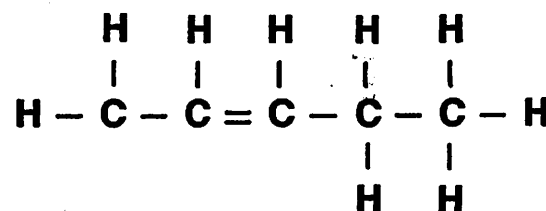
6.



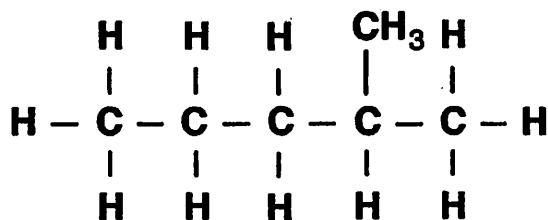
3.



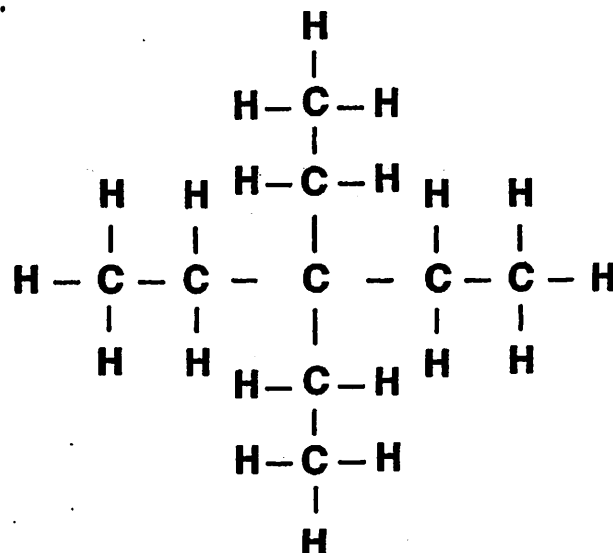
7.



4.



8.



FUNCTIONAL GROUPS

Name _____

Classify each of the organic compounds below as an alcohol, carboxylic acid, aldehyde, ketone, ether or ester, and draw its structural formula. *Name this compound too*

| | |
|---|---|
| 1. CH_3COOH | 6. $\text{CH}_3\text{CH}(\text{OH})\text{CH}_3$ |
| 2. CH_3COCH_3 | 7. $\text{CH}_3\text{CH}_2\text{COOH}$ |
| 3. $\text{CH}_3\text{CH}_2\text{OH}$ | 8. $\text{CH}_3\text{CH}_2\text{COOCH}_3$ |
| 4. $\text{CH}_3\text{CH}_2\text{OCH}_3$ | 9. $\text{CH}_3\text{CH}_2\text{COCH}_3$ |
| 5. $\text{CH}_3\text{CH}_2\text{CHO}$ | 10. CH_3OCH_3 |